

Amendments to the Claims:

This listing of claims replaces all prior listings, and versions, of claims in the application:

Listing of Claims:

1. (Currently amended) An apparatus of ~~[[for]]~~ a radio communication system ~~having a network part that maintains a network copy of a first database containing data and a mobile node that maintains a mobile copy of the first database containing data, the first database being comprised of a plurality of records, a record being comprised of a plurality of fields, each field being populated with data, the data of the network copy and data of the mobile copy of the first database, corresponding when the data in the network copy of the first database and the data in the mobile copy of the first database match one another, said apparatus for altering the data of at least one of the network copy and the mobile copy of the first database to place the network copy and the mobile copy in match with each other, said apparatus being embodied at a~~ [[the]] mobile node and comprising:

receiver circuitry, capable of receiving radio communication signals;

a request detector coupled to the receiver circuitry, the request detector capable of detecting requests for hash information and requests for data records;

a hash generator coupled to the request detector and receiving therefrom ~~there from~~, requests for hash information, said hash generator capable of forming first and second hash values of data received by said hash generator from a plurality of databases ~~the first database~~, the hash generator generating a first hash value that is computed over the plurality of databases ~~first database~~ responsive to a first request received by the hash generator from the request detector, the first hash value being formed for communication to [[the]] a network part to determine whether [[the]] a network-copy and [[the]] a mobile-copy of the plurality of databases are in match with one another, said second hash value being computed over an individual record of the plurality of databases ~~first database~~ and communicated to the network

part, after said first hash value has been computed and communicated to the network part and used by the network part to determine that the network-copy and the mobile-copy are not in match with one another the second hash value being generated by the hash generator responsive to the receipt by the request detector of a second request for additional hash information, a second request for additional hash information being received by the request detector only if the mobile copy of the first hash value does not match the network copy of the first hash value; and

a content retriever coupled to said request detector, said content retriever retrieving data records from the mobile-copy of at least one of the plurality of databases ~~first database~~ responsive to requests received by said content receiver from the request detector, data records retrieved by said content retriever for communication to the network part, and used by the network part to synchronize the network-copy and the mobile-copy to each other;

wherein the plurality of databases ~~first database~~ is implemented in an extensible mark-up language (XML) format.

2. (Previously presented) The apparatus of claim 1 wherein said hash generator generates the first hash values responsive to an external triggering event, occurrence of which is detectable at the mobile node.

3. (Previously presented) The apparatus of claim 1 wherein said hash generator generates the second hash values responsive to an external triggering event, occurrence of which is detectable at the mobile node.

4. (Previously presented) The apparatus of claim 3 wherein said hash generator generates the first hashes upon detection of an external triggering event, the occurrence of which is detectable at the mobile node and wherein said hash generator generates the second hashes responsive to a network part determination that the first hashes, generated by said hash generator did not match a first hash generated by the network part.

5. (Currently amended) The apparatus of claim 1 wherein the data maintained at the network-copy and the mobile-copy of the plurality of databases ~~first database~~ is comprised of data records, each data record being comprised of fields including at least a first key field and at least a first record field, and wherein the second hashes selectably generated by said hash generator are formed of values of the at least the first key field.

6. (Previously presented) The apparatus of claim 1 wherein the determination that the network-copy and the mobile-copy are out of match is made responsive to values of a second-type hash formed of the values of the at least the key field.

7. (Previously presented) The apparatus of claim 1 wherein the data retrieved by said content retriever comprises both the at least the first key field and the at least the first record field.

8. (Currently amended) The radio communication system of claim 1, wherein the network part comprises:

a determiner embodied at the network part and which receives hash values generated by said hash generator embodied at the mobile node, said determiner determining whether the hash values generated by the hash generator at the mobile node, match with corresponding hash values generated at the network part; and

a requestor coupled to said determiner and receiving indications that a hash value from the mobile node does not match a corresponding hash value generated at the network part, said requestor requesting from the mobile node, additional information associated with the mobile-copy of at least one of the plurality of databases ~~first database~~.

9. (Previously presented) The apparatus of claim 8 wherein the hash values generated at the network part include said first hash value and said second hash value.

10. (Previously presented) The apparatus of claim 8 wherein the additional information requested by said requestor comprises a request for the mobile node to deliver the second hash value to the comparator.

11. (Currently amended) The apparatus of claim 8 wherein the data maintained at the network-copy and the mobile-copy of the plurality of databases ~~first database~~ is comprised of data records and wherein the additional information requested by said requestor comprises a request for the mobile node to deliver at least portions of the data records.

12. (Currently amended) The apparatus of claim 11 further comprising a comparator receiving from the mobile node, data records or portions thereof and adapted to compare data records or portions thereof from the mobile node, to corresponding values of the network-copy of at least one of the plurality of databases ~~first database~~.

13. (Currently amended) The apparatus of claim 12 further comprising a database value updater coupled to said comparator, said database value updater being responsive to comparisons made by said comparator to alter at least one data record of a selected one of the mobile-copy and the network-copy of the ~~at least the~~ plurality of databases ~~first database~~.

14. (Previously presented) The apparatus of claim 13 wherein said database value updater operates pursuant to a selected conflict resolution protocol.

15 - 20. Cancelled

21. (Currently amended) A method for synchronizing a plurality of extensible markup language (XML) databases on a network with a plurality of extensible markup language (XML) databases on a mobile node, the method comprising:

creating first hash information pursuant to a first technique, the first hash information being representative of values contained in the mobile node's plurality of databases;

communicating the first hash information to the network node;

receiving at a request detector coupled to receiver circuitry of the mobile node a request from the network for second hash information when the network determines, based at least on the first hash information, that the plurality of databases on the network and the plurality of databases on the mobile node are out-of-match; and

creating the second hash information pursuant to a second technique;

wherein the first technique is less computationally-intensive than the second technique and the first hash information requires less communication channel capacity than the second hash information.

22. (Currently amended) A method comprising:

generating first hash information based upon first data contained in ~~one or more~~ a plurality of databases maintained at a mobile node in response to a synchronization trigger, the first hash information comprising a hash of one or more key fields of a record of the ~~one or more~~ plurality of databases and a hash of one or more record fields of the record;

communicating the first hash information by way of an air interface;

being delivered a request for second hash information when the first hash information is indicative of a mismatch condition;

forming the second hash information in response to the request;

being communicated a fetch request from the second hash information is indicative of a change to data of which the second hash information is representative; and

returning third data as requested in the fetch request.

23. (Currently amended) The method of claim 21, wherein the fetch request is piggybacked with second data for the mobile node based upon a type of synchronization.

24. (Previously presented) The method of claim 21, where in first hash information is based upon first data contained in two or more databases maintained at the mobile node.

25. (Previously presented) The method of claim 21, further comprising generating a synchronization trigger at the mobile node.

26. (Previously presented) The method of claim 21, further comprising being delivered a synchronization trigger.

27. (New) The method of claim 22, wherein the triggering of synchronization further comprises one of detecting a field mapping change and performing a restore operation upon at least one mobile node database.

28. (New) The method of claim 21 wherein the communicating of the first hash information to the network node further comprises communicating the first hash information to the network node in a single transmission on an air interface.

29. (New) The method of claim 22 further comprising communicating the second hash information to the network node in a single transmission on the air interface.